

DERWENT-ACC-NO: 1977-17851Y

DERWENT-WEEK: 200300

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TITLE: High capacity electric battery - contg. lithium anode, carbon fluoride cathode and non-aqueous electrolyte

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PRIORITY-DATA: 1974SU-2024533 (May 15, 1974)

PATENT-FAMILY:

| PUB-NO      | PUB-DATE      | LANGUAGE | PAGES | MAIN-IPC |
|-------------|---------------|----------|-------|----------|
| SU 516126 A | June 29, 1976 | N/A      | 000   | N/A      |

INT-CL (IPC): H01M004/36, H01M010/40

ABSTRACTED-PUB-NO: SU 516126A

BASIC-ABSTRACT:

The carbon fluoride cathode is stable and non-hygroscopic in normal temp. conditions, and specific capacity is raised 15-20% above the previous value of 0.85 amp.hr. The cathode material is of formula (CF<sub>x</sub>)<sub>n</sub> (where x is 1.0-1.5)

In an example, the carbon fluoride was powdered and mixed with a polymeric binder and an electrically conducting additive, such as an acetylenic carbon black, in the ratio 1:0.2:0.2, pressed onto a lattice at 100 kg./cm.<sup>2</sup>, then heated to the softening point of the polymer. The electrode was combined with the lithium electrode and made into a pack using polypropylene as the electrode divider, and impregnated with a soln. of lithium perchlorate in propylene carbonate.

TITLE-TERMS: HIGH CAPACITY ELECTRIC BATTERY CONTAIN LITHIUM ANODE CARBON FLUORIDE CATHODE NON AQUEOUS ELECTROLYTIC

*English Abstract*

*only*

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*5-2-07*